Geophysical journal subject index by volume 96

Anisotropy

Ray tracing in azimuthally anisotropic media–I. Results for models of aligned cracks in the upper crust (Shearer, P.M., Chapman, C.H.), **96**, 51
Ray tracing in azimuthally anisotropic media–II. Quasi-shear wave coupling (Chapman, C.H., Shearer, P.M.), **96**, 65
The anisotropic structure of the upper mantle in the Pacific (Nishimura, C.E., Forsyth, D.W.), **96**, 203
The reflection and transmission of plane *P*- and *S*-waves by a continuously stratified band: a new approach using invariant imbedding (Tromp, J., Snieder, R.), **96**, 447

APWP (apparent polar wander path)

A weighted least-squares fit of the Australian apparent polar wander path for the last 100 Myr (Musgrave, R.J.), **96**, 231

Australasia

Multigenetic gravity couple across a modern convergent margin: inheritance from Cretaceous asymmetric extension (Kamp, P.J.J., Hegarty, K.A.), **96**, 33
Crustal heterogeneity in South Australia, earthquake evidence (Greenhalgh, S.A., Tapley, D., Singh, R.), **96**, 85
A weighted least-squares fit of the Australian apparent polar wander path for the last 100 Myr (Musgrave, R.J.), **96**, 231
Late Pleistocene and Holocene sea-level change in the Australian region and mantle rheology (Nakada, M., Lambeck, K.), **96**, 497

***b*-values**

A reinterpretation of the precursory seismic *b*-value anomaly from fracture mechanics (Main, I.G., Meredith, P.G., Jones, C.), **96**, 131

Bending parameters

The accuracy of some lithospheric bending parameters (McQueen, H.W.S., Lambeck, K.), **96**, 401

Black Sea

An experiment to invert *Seasat* altimetry for the Mediterranean and Black Sea mean surfaces (Mazzega, P., Houry, S.), **96**, 259

Body waves

The reflection and transmission of plane *P*- and *S*-waves by a continuously stratified band: a new approach using invariant imbedding (Tromp, J., Snieder, R.), **96**, 447

Canada

Estimation of the magnetic fields of current channels in magnetovariational data (Wang, X., Samson, J.C., Gough, D.I.), **96**, 381

Channelled currents

Estimation of the magnetic fields of current channels in magnetovariational data (Wang, X., Samson, J.C., Gough, D.I.), **96**, 381

Compact finite-elements

Three-dimensional time-domain electromagnetic modelling using a compact finite-element frequency-stepping method (Gupta, P.K., Raiche, A.P., Sugeng, F.), **96**, 457

Cracks

A model of foreshock occurrence (Yamashita, T., Knopoff, L.), **96**, 389

Crustal structure

Crustal heterogeneity in South Australia, earthquake evidence (Greenhalgh, S.A., Tapley, D., Singh, R.), **96**, 85

Deflection

The accuracy of some lithospheric bending parameters (McQueen, H.W.S., Lambeck, K.), **96**, 401

Diapir

Holographic measurements of surface topography in laboratory models of mantle hotspots (Griffiths, R.W., Gurnis, M., Eitelberg, G.), **96**, 477

Diffraction

Corrections for grazing rays in 2-D seismic modelling (Thomson, C.J.), **96**, 415

Dislocation theory

A dislocation model for the earthquake cycle at convergent plate boundaries (Matsu'ura, M., Sato, T.), **96**, 23

Earthquakes

A dislocation model for the earthquake cycle at convergent plate boundaries (Matsu'ura, M., Sato, T.), **96**, 23
A reinterpretation of the precursory seismic *b*-value anomaly from fracture mechanics (Main, I.G., Meredith, P.G., Jones, C.), **96**, 131
Modal synthesis of high-frequency waves in Scotland (MacBeth, C.D., Panza, G.F.), **96**, 353
A model of foreshock occurrence (Yamashita, T., Knopoff, L.), **96**, 389
Strong ground motion in normal-faulting earthquakes (Westaway, R., Smith, R.B.), **96**, 529

East Pacific Rise

Mechanisms of lithospheric extension at mid-ocean ridges (Lin, J., Parmentier, E.M.), **96**, 1

Eigen solutions

Coupling between the multiplets of laterally heterogeneous earth models (Tsuboi, S., Geller, R.J.) **96**, 371

Electromagnetism

Estimation of the magnetic fields of current channels in magnetovariational data (Wang, X., Samson, J.C., Gough, D.I.), **96**, 381

Three-dimensional time-domain electromagnetic modelling using a compact finite-element frequency-stepping method (Gupta, P.K., Raiche, A.P., Sugeng, F.), **96**, 457

A strong topographic valley effect in AMT and VLF-R measurements (Fischer, G.), **96**, 469

Expanding spread profiles

The Hatton Bank continental margin–I. Shallow structure from two-ship expanding spread seismic profiles (Spence, G.D., White, R.S., Westbrook, G.K., Fowler, S.R.), **96**, 273

Fault tectonics

Inversion of field data in fault tectonics to obtain the regional stress–II. Using conjugate fault sets within heterogeneous families for computing palaeostress axes (Huang, Q., Angelier, J.), **96**, 139

Fault-slip zones

On fault slip zones in the external shear-field separated by a high rigidity asperity (barrier)–inplane and antiplane strain models (Rybicki, K.R.), **96**, 101

Finite difference method

Three-dimensional numerical modelling of thermal transfer through the Vittel aquifer (Vosges, France), including approximated topographical effects (Danis, M., Quintard, M.), **96**, 343

Fluid core

Asymptotic behaviour of decay rates of internal waves in a rotating stratified spherical shell (Friedlander, S.), **96**, 245

Foreshocks

A model of foreshock occurrence (Yamashita, T., Knopoff, L.), **96**, 389

Fracture mechanics

A reinterpretation of the precursory seismic *b*-value anomaly from fracture mechanics (Main, I.G., Meredith, P.G., Jones, C.), **96**, 131

Geothermal evaluation

Three-dimensional numerical modelling of thermal transfer through the Vittel aquifer (Vosges, France), including approximated topographical effects (Danis, M., Quintard, M.), **96**, 343

Gravity couple

Multigenetic gravity couple across a modern convergent margin: inheritance from Cretaceous asymmetric extension (Kamp, P.J.J., Hegarty, K.A.), **96**, 33

Grazing rays

Corrections for grazing rays in 2-D seismic modelling (Thomson, C.J.), **96**, 415

Hatton Bank

The Hatton Bank continental margin–I. Shallow structure from two-ship expanding spread seismic profiles (Spence, G.D., White, R.S., Westbrook, G.K., Fowler, S.R.), **96**, 273

The Hatton Bank continental margin–II. Deep structure from two-ship expanding spread seismic profiles (Fowler, S.R., White, R.S., Spence, G.D., Westbrook, G.K.), **96**, 295

Hotspots

Holographic measurements of surface topography in laboratory models of mantle hotspots (Griffiths, R.W., Gurnis, M., Eitelberg, G.), **96**, 477

Igneous rock

On the lognormal distribution of oxides in igneous rocks, using magnetic susceptibility as a proxy for oxide mineral concentration (Latham, A.G., Harding, K.L., Lapointe, P., Morris, W.A., Balch, S.J.), **96**, 179

Internal waves

Asymptotic behaviour of decay rates of internal waves in a rotating stratified spherical shell (Friedlander, S.), **96**, 245

Invariant imbedding

The reflection and transmission of plane *P*- and *S*-waves by a continuously stratified band: a new approach using invariant imbedding (Tromp, J., Snieder, R.), **96**, 447

Inverse method

An experiment to invert *Seasat* altimetry for the Mediterranean and Black Sea mean surfaces (Mazzega, P., Houry, S.), **96**, 259

Japan

Palaeomagnetism of stalagmites (speleothems) in SW Japan (Morinaga, H., Inokuchi, H., Yaskawa, K.), **96**, 519

Lithosphere

The accuracy of some lithospheric bending parameters (McQueen, H.W.S., Lambeck, K.), **96**, 401

Lithospheric deformation

Mechanisms of lithospheric extension at mid-ocean ridges (Lin, J., Parmentier, E.M.), **96**, 1

Magnetic susceptibility

On the lognormal distribution of oxides in igneous rocks, using magnetic susceptibility as a proxy for oxide mineral concentration (Latham, A.G., Harding, K.L., Lapointe, P., Morris, W.A., Balch, S.J.), **96**, 179

Magnetotellurics

A strong topographic valley effect in AMT and VLF-R measurements (Fischer, G.), **96**, 469

Magnetovariation

Estimation of the magnetic fields of current channels in magnetovariational data (Wang, X., Samson, J.C., Gough, D.I.), **96**, 381

Mantle plumes

Holographic measurements of surface topography in laboratory models of mantle hotspots (Griffiths, R.W., Gurnis, M., Eitelberg, G.), **96**, 477

Mantle rheology

Late Pleistocene and Holocene sea-level change in the Australian region and mantle rheology (Nakada, M., Lambeck, K.), **96**, 497

Mediterranean Sea

An experiment to invert *Seasat* altimetry for the Mediterranean and Black Sea mean surfaces (Mazzega, P., Houry, S.), **96**, 259

Mid-Atlantic Ridge

Mechanisms of lithospheric extension at mid-ocean ridges (Lin, J., Parmentier, E.M.), **96**, 1

Mode coupling

Coupling between the multiplets of laterally heterogeneous earth models (Tsuboi, S., Geller, R.J.) **96**, 371

MSS (mean sea surface)

An experiment to invert *Seasat* altimetry for the Mediterranean and Black Sea mean surfaces (Mazzega, P., Houry, S.), **96**, 259

Normal faulting

Strong ground motion in normal-faulting earthquakes (Westaway, R., Smith, R.B.), **96**, 529

Orientation

Inversion of field data in fault tectonics to obtain the regional stress–II. Using conjugate fault sets within heterogeneous families for computing palaeostress axes (Huang, Q., Angelier, J.), **96**, 139

Pacific ocean

Plate tectonics at an awkward junction: rules for the evolution of Sovanco Ridge area, NE Pacific (Lister, C.R.B.), **96**, 191

The anisotropic structure of the upper mantle in the Pacific (Nishimura, C.E., Forsyth, D.W.), **96**, 203

Palaeomagnetism

Location of the western Pontides, NW Turkey, during Triassic time: preliminary palaeomagnetic results (Saribudak, M., Sanver, M., Ponat, E.), **96**, 43

Directional errors in remanent magnetization of non-cubic soft sediment specimens measured with spinner magnetometers (Steele, W.K.), **96**, 333

Palaeomagnetism of stalagmites (speleothems) in SW Japan (Morinaga, H., Inokuchi, H., Yaskawa, K.), **96**, 519

Plate tectonics

Plate tectonics at an awkward junction: rules for the evolution of Sovanco Ridge area, NE Pacific (Lister, C.R.B.), **96**, 191

Ray method

A method of comparison of exact and asymptotic wave field computations (Kiselev, A.P., Tsvankin, I.K.), **96**, 253

Ray tracing

Ray tracing in azimuthally anisotropic media–I. Results for models of aligned cracks in the upper crust (Shearer, P.M., Chapman, C.H.), **96**, 51

Ray tracing in azimuthally anisotropic media–II. Quasi-shear wave coupling (Chapman, C.H., Shearer, P.M.), **96**, 65

Rayleigh waves

Modal synthesis of high-frequency waves in Scotland (MacBeth, C.D., Panza, G.F.), **96**, 353

Red Sea

Transverse structures in the central part of the Red Sea and implications on early stages of oceanic accretion (Izzeldin, A.Y.), **96**, 117

Rupture propagation

A hybrid boundary integral equation method for the conputation of source time functions for 3-D rupture propagation (Quin, H.R., Das, S.X.), **96**, 163

Scotland

Modal synthesis of high-frequency waves in Scotland (MacBeth, C.D., Panza, G.F.), **96**, 353

Sea-level variation

Late Pleistocene and Holocene sea-level change in the Australian region and mantle rheology (Nakada, M., Lambeck, K.), **96**, 497

Seafloor spreading

Transverse structures in the central part of the Red Sea and implications on early stages of oceanic accretion (Izzeldin, A.Y.), **96**, 117

Seismic interrelations

Use of non-parametric correlation tests for the study of seismic interrelations (Albarello, D., Mucciarelli, M., Mantovani, E.), **96**, 185

Seismic inversion

Generalized non-linear elastic inversion with constraints in model and data spaces (Carrion), **96**, 151

Seismic quiescence

Temporary seismic quiescence: SE Turkey (Ambraseys, N.N.), **96**, 311

Seismic structure

The Hatton Bank continental margin–I. Shallow structure from two-ship expanding spread seismic profiles (Spence, G.D., White, R.S., Westbrook, G.K., Fowler, S.R.), **96**, 273
The Hatton Bank continental margin–II. Deep structure from two-ship expanding spread seismic profiles (Fowler, S.R., White, R.S., Spence, G.D., Westbrook, G.K.), **96**, 295

Seismic tomography

Crustal heterogeneity in South Australia, earthquake evidence (Greenhalgh, S.A., Tapley, D., Singh, R.), **96**, 85

Seismology

Corrections for grazing rays in 2-D seismic modelling (Thomson, C.J.), **96**, 415

Shear stress

On fault slip zones in the external shear-field separated by a high rigidity asperity (barrier)–inplane and antiplane strain models (Rybicki, K.R.), **96**, 101

Soft sediments

Directional errors in remanent magnetization of non-cubic soft sediment specimens measured with spinner magnetometers (Steele, W.K.), **96**, 333

Source time functions

A hybrid boundary integral equation method for the conputation of source time functions for 3-D rupture propagation (Quin, H.R., Das, S.X.), **96**, 163

Stalagmites

Palaeomagnetism of stalagmites (speleothems) in SW Japan (Morinaga, H., Inokuchi, H., Yaskawa, K.), **96**, 519

Stress axes

Inversion of field data in fault tectonics to obtain the regional stress–II. Using conjugate fault sets within heterogeneous families for computing palaeostress axes (Huang, Q., Angelier, J.), **96**, 139

Strong ground motion

Strong ground motion in normal-faulting earthquakes (Westaway, R., Smith, R.B.), **96**, 529

Synthetic seismograms

The Hatton Bank continental margin–I. Shallow structure from two-ship expanding spread seismic profiles (Spence, G.D., White, R.S., Westbrook, G.K., Fowler, S.R.), **96**, 273
The Hatton Bank continental margin–II. Deep structure from two-ship expanding spread seismic profiles (Fowler, S.R., White, R.S., Spence, G.D., Westbrook, G.K.), **96**, 295

TDEM modelling

Three-dimensional time-domain electromagnetic modelling using a compact finite-element frequency-stepping method (Gupta, P.K., Raiche, A.P., Sugeng, F.), **96**, 457

Tectonics

Multigenetic gravity couple across a modern convergent margin: inheritance from Cretaceous asymmetric extension (Kamp, P.J.J., Hegarty, K.A.), **96**, 33

Titanomagnetite

On the lognormal distribution of oxides in igneous rocks, using magnetic susceptibility as a proxy for oxide mineral concentration (Latham, A.G., Harding, K.L., Lapointe, P., Morris, W.A., Balch, S.J.), **96**, 179

Topographic valley effect

A strong topographic valley effect in AMT and VLF-R measurements (Fischer, G.), **96**, 469

Topography

Holographic measurements of surface topography in laboratory models of mantle hotspots (Griffiths, R.W., Gurnis, M., Eitelberg, G.), **96**, 477

Transform faults

Plate tectonics at an awkward junction: rules for the evolution of Sovanco Ridge area, NE Pacific (Lister, C.R.B.), **96**, 191

Transient wave

A method of comparison of exact and asymptotic wave field computations (Kiselev, A.P., Tsvankin, I.K.), **96**, 253

Transverse structures

Transverse structures in the central part of the Red Sea and implications on early stages of oceanic accretion (Izzeldin, A.Y.), **96**, 117

Triassic

Location of the western Pontides, NW Turkey, during Triassic time: preliminary palaeomagnetic results (Saribudak, M., Sanver, M., Ponat, E.), **96**, 43

Turkey

Location of the western Pontides, NW Turkey, during Triassic time: preliminary palaeomagnetic results (Saribudak, M., Sanver, M., Ponat, E.), **96**, 43
Temporary seismic quiescence: SE Turkey (Ambraseys, N.N.), **96**, 311

Upper mantle

The anisotropic structure of the upper mantle in the Pacific (Nishimura, C.E., Forsyth, D.W.), **96**, 203

Visco-elasticity

A dislocation model for the earthquake cycle at convergent plate boundaries (Matsu'ura, M., Sato, T.), **96**, 23

Viscosity

Asymptotic behaviour of decay rates of internal waves in a rotating stratified spherical shell (Friedlander, S.), **96**, 245

Geophysical journal author index by volume 96

Albarello, D., Mucciarelli, M., Mantovani, E. Use of non-parametric correlation tests for the study of seismic interrelations, **96**, 185
Ambraseys, N.N. Temporary seismic quiescence: SE Turkey, **96**, 311
Angelier, J. *see* Huang, Q.

Balch, S.J. *see* Latham, A.G.

Carrion Generalized non-linear elastic inversion with constraints in model and data spaces, **96**, 151
Chapman, C.H. *see* Shearer, P.M.
Chapman, C.H., Shearer, P.M. Ray tracing in azimuthally anisotropic media–II. Quasi-shear wave coupling, **96**, 65

Danis, M., Quintard, M. Three-dimensional numerical modelling of thermal transfer through the Vittel aquifer (Vosges, France), including approximated topographical effects, **96**, 343
Das, S.X. *see* Quin, H.R.

Eitelberg, G. *see* Griffiths, R.W.

Fischer, G. A strong topographic valley effect in AMT and VLF-R measurements, **96**, 469
Forsyth, D.W. *see* Nishimura, C.E.
Fowler, S.R. *see* Spence, G.D.
Fowler, S.R., White, R.S., Spence, G.D., Westbrook, G.K. The Hatton Bank continental margin–II. Deep structure from two-ship expanding spread seismic profiles, **96**, 295
Friedlander, S. Asymptotic behaviour of decay rates of internal waves in a rotating stratified spherical shell, **96**, 245

Geller, R.J. *see* Tsuboi, S.
Gough, D.I. *see* Wang, X.
Greenhalgh, S.A., Tapley, D., Singh, R. Crustal heterogeneity in South Australia, earthquake evidence, **96**, 85
Griffiths, R.W., Gurnis, M., Eitelberg, G. Holographic measurements of surface topography in laboratory models of mantle hotspots, **96**, 477
Gupta, P.K., Raiche, A.P., Sugeng, F. Three-dimensional time-domain electromagnetic modelling using a compact finite-element frequency-stepping method, **96**, 457
Gurnis, M. *see* Griffiths, R.W.

Harding, K.L. *see* Latham, A.G.
Hegarty, K.A. *see* Kamp, P.J.J.
Houry, S. *see* Mazzega, P.
Huang, Q., Angelier, J. Inversion of field data in fault tectonics to obtain the regional stress–II. Using conjugate fault sets within heterogeneous families for computing palaeostress axes, **96**, 139

Inokuchi, H. *see* Morinaga, H.
Izzeldin, A.Y. Transverse structures in the central part of the Red Sea and implications on early stages of oceanic accretion, **96**, 117

Jones, C. *see* Main, I.G.

Kamp, P.J.J., Hegarty, K.A. Multigenetic gravity couple across a modern convergent margin: inheritance from Cretaceous asymmetric extension, **96**, 33
Kiselev, A.P., Tsvankin, I.K. A method of comparison of exact and asymptotic wave field computations, **96**, 253
Knopoff, L. *see* Yamashita, T.

Lambeck, K. *see* McQueen, H.W.S.
Lambeck, K. *see* Nakada, M.
Lapointe, P. *see* Latham, A.G.
Latham, A.G., Harding, K.L., Lapointe, P., Morris, W.A., Balch, S.J. On the lognormal distribution of oxides in igneous rocks, using magnetic susceptibility as a proxy for oxide mineral concentration, **96**, 179
Lin, J., Parmentier, E.M. Mechanisms of lithospheric extension at mid-ocean ridges, **96**, 1
Lister, C.R.B. Plate tectonics at an awkward junction: rules for the evolution of Sovanco Ridge area, NE Pacific, **96**, 191

MacBeth, C.D., Panza, G.F. Modal synthesis of high-frequency waves in Scotland, **96**, 353
McQueen, H.W.S., Lambeck, K. The accuracy of some lithospheric bending parameters, **96**, 401
Main, I.G., Meredith, P.G., Jones, C. A reinterpretation of the precursory seismic *b*-value anomaly from fracture mechanics, **96**, 131
Mantovani, E. *see* Albarello, D.
Matsu'ura, M., Sato, T. A dislocation model for the earthquake cycle at convergent plate boundaries, **96**, 23
Mazzega, P., Houry, S. An experiment to invert *Seasat* altimetry for the Mediterranean and Black Sea mean surfaces, **96**, 259
Meredith, P.G. *see* Main, I.G.
Morinaga, H., Inokuchi, H., Yaskawa, K. Palaeomagnetism of stalagmites (speleothems) in SW Japan, **96**, 519
Morris, W.A. *see* Latham, A.G.
Mucciarelli, M. *see* Albarello, D.
Musgrave, R.J. A weighted least-squares fit of the Australian apparent polar wander path for the last 100 Myr, **96**, 231

Nakada, M., Lambeck, K. Late Pleistocene and Holocene sea-level change in the Australian region and mantle rheology, **96**, 497
Nishimura, C.E., Forsyth, D.W. The anisotropic structure of the upper mantle in the Pacific, **96**, 203

Panza, G.F. *see* MacBeth, C.D.
Parmentier, E.M. *see* Lin, J.
Ponat, E. *see* Saribudak, M.

Quin, H.R., Das, S.X. A hybrid boundary integral equation method for the conputation of source time functions for 3-D rupture propagation, **96**, 163
Quintard, M. *see* Danis, M.

Raiche, A.P. *see* Gupta, P.K.
Rybicki, K.R. On fault slip zones in the external shear-field separated by a high rigidity asperity (barrier)–inplane and antiplane strain models, **96**, 101

Samson, J.C. *see* Wang, X.
Sanver, M. *see* Saribudak, M.
Saribudak, M., Sanver, M., Ponat, E. Location of the western Pontides, NW Turkey, during Triassic time: preliminary palaeomagnetic results, **96**, 43
Sato, T. *see* Matsu'ura, M.
Shearer, P.M., Chapman, C.H. Ray tracing in azimuthally anisotropic media–I. Results for models of aligned cracks in the upper crust, **96**, 51
Shearer, P.M. *see* Chapman, C.H.
Singh, R. *see* Greenhalgh, S.A.
Smith, R.B. *see* Westaway, R.

Snieder, R. *see* Tromp, J.
Spence, G.D. *see* Fowler, S.R.
Spence, G.D., White, R.S., Westbrook, G.K., Fowler, S.R. The Hatton Bank continental margin–I. Shallow structure from two-ship expanding spread seismic profiles, **96**, 273
Steele, W.K. Directional errors in remanent magnetization of non-cubic soft sediment specimens measured with spinner magnetometers, **96**, 333
Sugeng, F. *see* Gupta, P.K.

Tapley, D. *see* Greenhalgh, S.A.
Thomson, C.J. Corrections for grazing rays in 2-D seismic modelling, **96**, 415
Tromp, J., Snieder, R. The reflection and transmission of plane *P*- and *S*-waves by a continuously stratified band: a new approach using invariant imbedding, **96**, 447
Tsuboi, S., Geller, R.J. Coupling between the multiplets of laterally heterogeneous earth models, **96**, 371
Tsvankin, I.D. *see* Kiselev, A.P.

Wang, X., Samson, J.C., Gough, D.I. Estimation of the magnetic fields of current channels in magnetovariational data, **96**, 381
Westaway, R., Smith, R.B. Strong ground motion in normal-faulting earthquakes, **96**, 529
Westbrook, G.K. *see* Fowler, S.R.
Westbrook, G.K. *see* Spence, G.D.
White, R.S. *see* Fowler, S.R.
White, R.S. *see* Spence, G.D.

Yamashita, T., Knopoff, L. A model of foreshock occurrence, **96**, 389
Yaskawa, K. *see* Morinaga, H.